

CLAIMS

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1. A method of imparting flame retardant properties to a polyurethane composition comprising adding an effective amount of
5 ethylenebistetraabromophthalimide and/or tris(2,3-dibromopropyl)isocyanurate as a fire retardant during manufacture of the polyurethane composition.

2. The method of claim 1 wherein the polyurethane composition is a
10 polyurethane foam, polyurethane rubber, polyurethane coating, polyurethane sealant or polyurethane adhesive.

3. The method of claim 2 wherein the polyurethane adhesive is a reactive hot melt adhesive.

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4. A polyurethane adhesive comprising an isocyanate, a polyol and a
fire retardant selected from the group consisting of
ethylenebistetraabromophthalimide, tris(2,3-dibromopropyl)isocyanurate and
mixtures thereof.

5. The adhesive of claim 4 wherein the isocyanate is a diisocyanate or a
polyisocyanate.

6. The adhesive of claim 5 wherein the fire retardant further comprises
a chlorinated paraffin, an aryl phosphate ester and/or antimony trioxide.

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8. The adhesive of claim 4 wherein the polyol is a polyether polyol, a polyester polyol or a mixture thereof.

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8. The adhesive of claim 7 further comprising an acrylic copolymer.

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9. The adhesive composition of claim 8 prepared by reacting from about 5 to about 50 parts by weight of an isocyanate, from about 1 to about 70 parts by weight of a polyol, about 0 to about 40 parts by weight of an acrylic resin and from about 1 to about 50 parts by weight of ethylenebistetrabromophthalimide and/or tris(2,3-dibromopropyl)isocyanurate.

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10. The composition of claim 9 further comprising up to about 10 parts by weight of a chlorinated paraffin and/or up to about 10 parts by weight of an aryl phosphate ester, as further a flame retardant component.

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11. A method for bonding articles together which comprises applying a reactive hot melt adhesive composition according to claim 1 in a liquid form to a first article, bringing a second article in contact with the composition applied to the first article, and subjecting the applied composition to conditions which will allow the composition to cool and cure to a composition having an irreversible solid form, said conditions comprising moisture.

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12. An article of manufacture comprising the adhesive of claim 4.

13. The article of claim 12 which is an entry door.

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